

MediaCento™ IPX Extenders

Extend HDMI video over an IP network to as many as 250 distant screens—or to video walls!

Virtually
no distance
limitations!



- » For faster, more efficient HD content distribution.
- » A digital solution for the future at an analog price.
- » Ideal for digital signage and video distribution applications.
- » HDCP compliant and Blu-ray ready.



 **MediaCento™ IPX**
BLACK BOX HDMI OVER IP DISTRIBUTION

MediaCento IPX Extenders

MediaCento IPX Multicast (VX-HDMI-IP-MTX and VX-HDMI-IP-MRX)

- Transmits HDMI® video and audio over an Ethernet network to up to 250 screens. Can go as far as your network reaches.
- Uses existing standards-based Ethernet technology and TCP/IP protocols.
- Provides very high image quality with visually lossless compression.
- A single transmitter can deliver multimedia to hundreds of remote displays.
- EDID copy function for optimal PC-to-screen performance.
- Supports serial connections to switch screens on/off.



This attractively priced IP streaming solution multicasts HDMI video and audio to up to 250 screens on a network. You need just one VX-HDMI-IP-MTX transmitter and up to 250 VX-HDMI-IP-MRX receivers.

MediaCento IPX Multicast is ideal for distributing digital signage content or other HD video and audio across an Ethernet network. Because the transmitter and receivers install directly into your existing LAN infrastructure, integration is easy. There's no need to run expensive dedicated links from a back room to digital signage in lobbies.

The extender transmits up to 328 feet (100 m) per link but goes even longer when additional network switches are added to the mix. You can even use fiber with media converters to go several miles if needed. Its signal is completely digital from end to end, so your digital content is never compromised.

Lossless compression for HD extension.

Featuring visually lossless compression, the MediaCento IPX Multicast units transmit broadcast-quality video and audio, and support Full 1080p resolution no matter what the distance or the number of screens, as well as all common PC resolutions (XGA, SXGA, UXGA, WSXGA) up to 1920 x 1200 at 60 Hz.

MediaCento IPX Multicast features IGMP support and packetizes signals so all your HD source content can be delivered anywhere you want over Ethernet wiring. It works in point-to-point or point-to-multipoint configurations. Just plug in as many receivers as you need at your remote screens.

Extremely easy to set up and use.

MediaCento IPX Multicast also supports RS-232 for configuration and control, and for extending bidirectional control signals. Use this serial link to switch screens on or off.

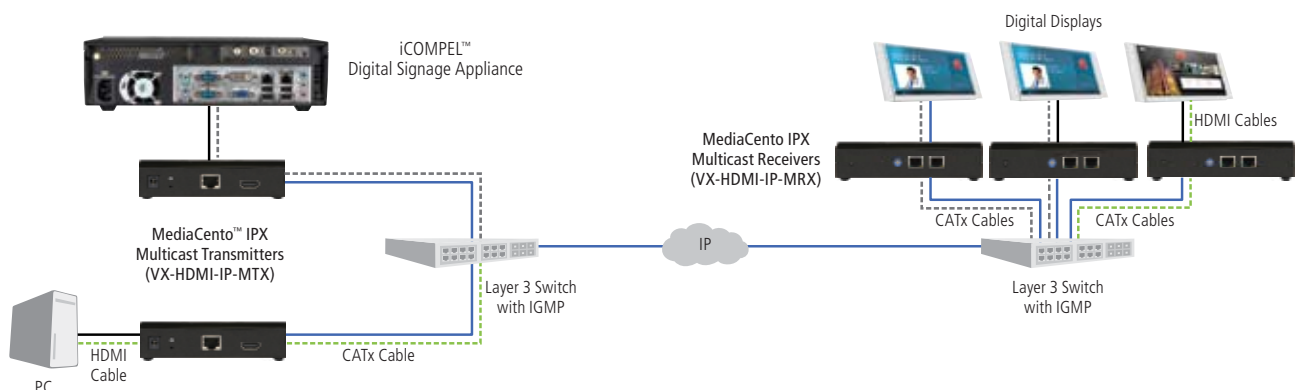
There's no need to configure any IP settings (although more experienced users can do that if needed). Simply use rotary switches to set the transmitter and receivers to the same multicast channel and all IP multicasting settings are automatically configured; then just connect your source, your display(s), and a network switch. It's ready to go!

For product specifications and ordering information, see the **last page**.

NOTE: For the best performance, use with a Layer 2 or 3 switch with IGMP support. For details, contact Black Box Tech Support. For a selection of switches, visit blackbox.com/go/Networking.

The ideal solution for:

- » Digital signage in different buildings or stores.
- » Distributing high-quality medical imaging video across a hospital campus.
- » Streaming video to classrooms in schools.
- » Multicasting video in command and control room setups.
- » Corporate video sharing and training.



MediaCentro IPX Multicast for Video Walls (VX-HDMI-IP-VTX and VX-HDMI-IP-VRX)

- All the multicast extension capabilities of the standard version, but for video wall connections.
- Scales source video for output on a video wall matrix.
- Video wall can be configured for multiple rows and columns.
- Use one transmitter to send video to all video wall receivers.
- Assign source video to any screen in a video wall.
- Easy to configure video wall image using Web-based interface.

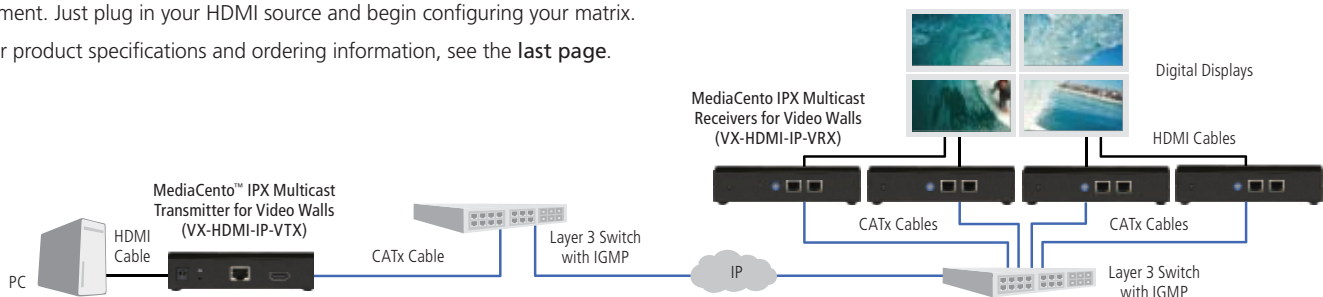
Multicast HDMI video and audio to up to 250 screens on a network and even output a single source video on video walls. The MediaCentro IPX Multicast for Video Walls offers all the features of the standard version, but also supports output to video walls, so you can create eye-catching walls to project your message and content on a larger scale.

The extender supports customizable monitor array sizes for any video wall setup or application. A wall can be configured for multiple rows and columns. You need just one transmitter and up to 64 receivers for an 8 x 8 wall. Each receiver scales and outputs the correct part of the picture for its video wall display. To configure video image output, simply access the system's Web-based interface. You don't need to install any software on your source equipment. Just plug in your HDMI source and begin configuring your matrix.

For product specifications and ordering information, see the [last page](#).



NOTE: For the best performance, use with a Layer 2 or 3 switch with IGMP support. For details, contact Black Box Tech Support. For a selection of switches, visit blackbox.com/Go/Networking.



Also available: a unicast version for point-to-point extension:

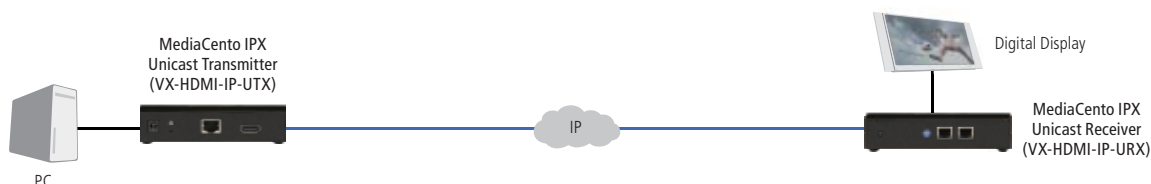
MediaCentro IPX Unicast (VX-HDMI-IP-UTX and VX-HDMI-IP-URX)

- Transmits HDMI video and audio over an Ethernet network to a single monitor or display.
- Extends up to 328 feet (100 m) point to point but goes even longer with network switches added to the mix.
- Visually lossless compression for very high image quality.
- Features EDID copy function and is HDCP compliant.
- Does not even require multicast or IGMP and can be used in any existing corporate Gigabit network.

This affordable IP streaming solution unicasts HDMI video and audio to a distant screen on your network. Use the MediaCentro IPX Unicast system to distribute digital signage content or other HD video and audio across an Ethernet network.

The transmitter and receiver install directly into your existing LAN infrastructure. The system packetizes signals so your HD source content can be delivered anywhere over Ethernet wiring, supporting Full 1080p resolution no matter what the distance, as well as all common PC resolutions (XGA, SXGA, UXGA, WSXGA) up to 1920 x 1200 at 60 Hz.

For product specifications and ordering information, see the [last page](#).



Why a MediaCento IPX Extender?

Six reasons to choose this solution:

1. Simple to install and configure.

No advance knowledge of video and IP technology is required. For this reason, it's ideal for AV installers and end users looking for an easy way to distribute 1080p content.

2. Fits easily into any network architecture.

The technology is based on standardized Ethernet protocols. Just use a network switch with IGMP to control the multicast traffic over a LAN.

3. Can save you on cabling costs.

It uses the same Ethernet network cabling you likely already have installed, so no new AV or CATx cabling is needed.

4. Easy to scale for additional screen connectivity.

A single transmitter can deliver multimedia to hundreds of displays. No transmitter upgrade will be required later. Simply purchase additional receivers for additional screen connections.

5. Provides real-time video transmission.

Because it transmits high-quality video with ultra-low latency, it's ideal for command and control applications as well as any live presentations.

6. No extra video scaler is needed.

The VRX receivers optionally scale video on a video wall matrix. No additional hardware is required, and all types of standard HDMI/DVI displays can be used for the video wall.

TECH SPECS

Bandwidth Consumption (Maximum) — 150 Mbps

Distance (Maximum) — Point-to-point: 328 ft. (100 m); use an Ethernet switch to go farther distances

Resolution (Maximum) — Full HD (1920 x 1080); WUXGA (1920 x 1200 at 60 Hz)

User Controls — (1) 16-position rotary selection dial, (1) reset button, (1) function button

User Interface — All models: Telnet, RS-232;

VX-HDMI-IP-VTX, VX-HDMI-IP-VRX also feature interface for configuring video image on screens

CE Approval — Yes

RoHS — Yes

Connectors — Transmitters: Video input: (1) HDMI F;
Interconnect/LAN: (1) RJ-45 (10/100/1000 Mbps);
Serial control: (2) RJ-12 6P6C (RS-232);

Receivers: Video output: (1) HDMI F;
Interconnect/LAN: (1) RJ-45 (10/100/1000 Mbps);
Serial control: (2) RJ-12 6P6C (RS-232)

Indicators — (1) LED for power/connection status, (1) LED for network activity

Power — Input: 100–240 VAC, 50–60 Hz;

Output: 9–12 VDC, 1.5 amps;
Consumption: 13.5 watts

Size — All transmitters and receivers: 1"H x 3.8"W x 5.1"D (2.5 x 9.6 x 13 cm)

Weight — All transmitters and receivers: 1.1 lb. (0.5 kg)

NOTE: The quality of the output signal will depend largely upon the quality of the video source, cable, and display device used. Low-quality cables degrade output signals, causing elevated noise levels.

What's included:

- MediaCento IPX Transmitter or Receiver
 - Power supply
 - Power cord
 - (4) foot pads
 - CD-ROM with user manual
- Transmitters also include:
- DB9 F to RJ-11 adapter
 - RJ-11 to RJ-11 cable

Item	List Price
For multicasting HDMI video, first order a transmitter...	
MediaCento IPX Multicast Transmitter	VX-HDMI-IP-MTX
...then for each remote screen, order a receiver...	
MediaCento IPX Multicast Receiver	VX-HDMI-IP-MRX
For multicasting HDMI video to a video wall, order your transmitter...	
MediaCento IPX Multicast Transmitter for Video Walls	VX-HDMI-IP-VTX
...then for each screen in the wall, order a receiver:	
MediaCento IPX Multicast Receiver for Video Walls	VX-HDMI-IP-VRX
For point-to-point applications, first order a transmitter...	
MediaCento IPX Unicast Transmitter	VX-HDMI-IP-UTX
...then a receiver:	
MediaCento IPX Unicast Receiver	VX-HDMI-IP-URX



black-box.eu/MIPX